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FEDERAL - STATE - PRIVATE
COOPERATIVE SNOW SURVEYS

U. S. DEPT. OF AGRICULTURE
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CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS for UTAH

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
STATE ENGINEER of UTAH

In cooperation with U.S. Forest Service, Bureau of Reclamation,
Utah Fish and Game Dept., Utah Agricultural Experiment Station,
U.S. National Park Service, U.S. Geological Survey; and other
Federal, State, and private organizations.

||||||| AS OF |||||||
JAN. 1, 1966

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES _____	MONTHLY (FEB.-MAY) _____	PORTLAND, OREGON _____	ALL COOPERATORS
BASIC DATA SUMMARY _____	OCTOBER 1 _____	PORTLAND, OREGON _____	ALL COOPERATORS
STATES			
ALASKA _____	MONTHLY (MAR.-MAY) _____	PALMER, ALASKA _____	ALASKA S.C.D.
ARIZONA _____	SEMI-MONTHLY _____ (JAN.15 - APR.1)	PHOENIX, ARIZONA _____	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO _____	MONTHLY (FEB.-MAY) _____	FORT COLLINS, COLORADO _____	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO _____	MONTHLY (JAN.-JUNE) _____	BOISE, IDAHO _____	IDAHO STATE RECLAMATION ENGINEER
MONTANA _____	MONTHLY (JAN.-JUNE) _____	BOZEMAN, MONTANA _____	MONT. AGR. EXP. STATION
NEVADA _____	MONTHLY (JAN.-MAY) _____	RENO, NEVADA _____	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON _____	MONTHLY (JAN.-JUNE) _____	PORTLAND, OREGON _____	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH _____	MONTHLY (JAN.-JUNE) _____	SALT LAKE CITY, UTAH _____	UTAH STATE ENGINEER
WASHINGTON _____	MONTHLY (FEB.-JUNE) _____	SPOKANE, WASHINGTON _____	WN. STATE DEPT. OF CONSERVATION
WYOMING _____	MONTHLY (FEB.-JUNE) _____	CASPER, WYOMING _____	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA _____	MONTHLY (FEB.-JUNE) _____	WATER RESOURCES SERVICE, DEPT. OF LANDS, FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA _____	MONTHLY (FEB.-MAY) _____	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
UTAH

JANUARY 1, 1966

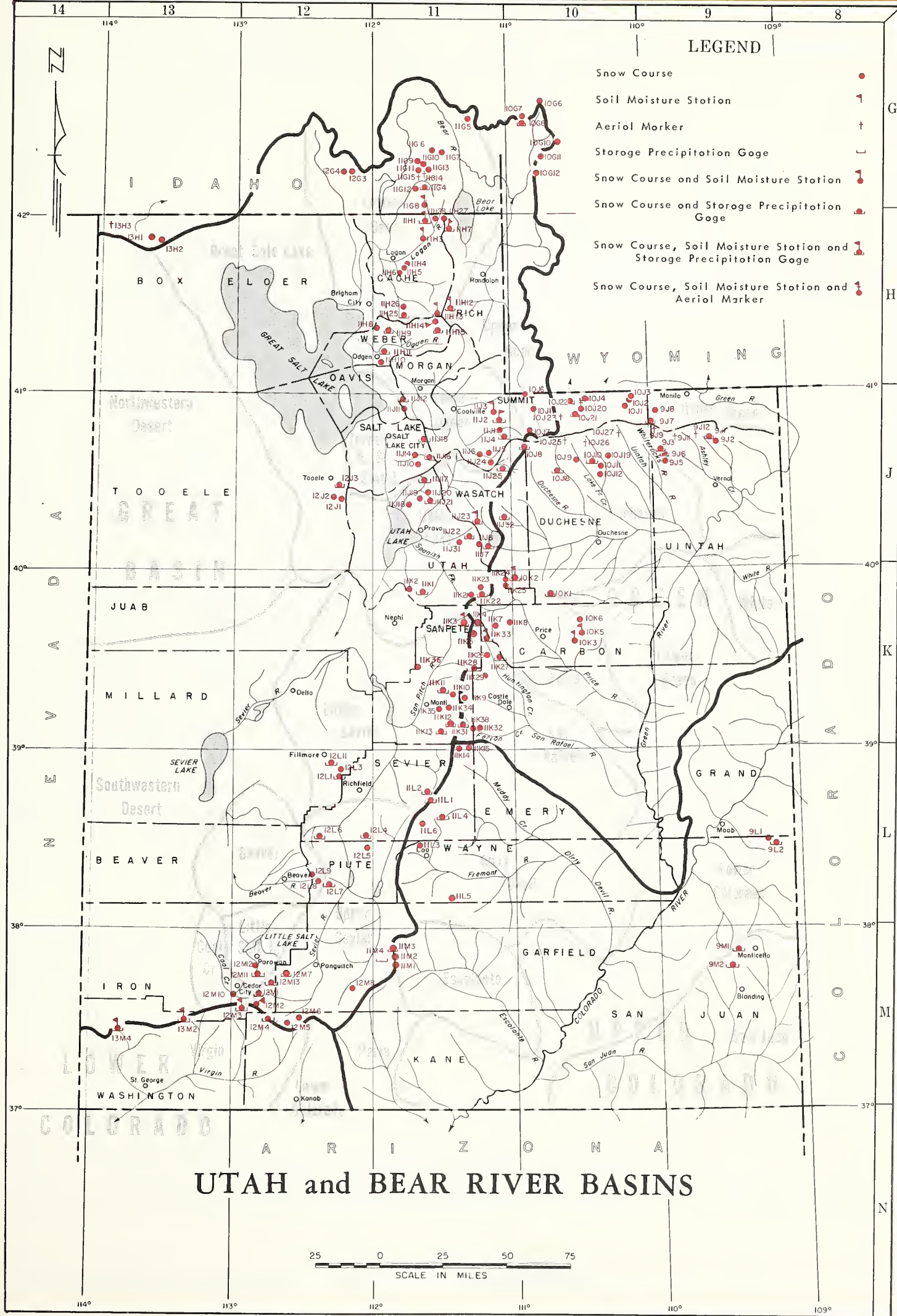
Report prepared by
GREGORY L. PEARSON - PAUL KEIL
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SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
FEDERAL BLDG., ROOM 4012
SALT LAKE CITY UTAH 84111

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SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH



INDEX TO UTAH AND BEAR RIVER BASIN

GREAT BASIN DRAINAGE

UPPER BEAR RIVER (above Harer, Idaho)

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
10011	W	Big Park	7	27N	117W	8700
10016	W	Burke-Walker Ranch	19	3N	108W	7900
10017	W	CCC Camp x	1	29N	118W	7500
10018	W	Harden Fork	1	13N	9E	9300
10019	W	Kelly Ranger Station	13	26N	118W	8200
10020	W	Monte Cristo R.S.	4	8N	4E	8960
10021	W	Piney LaBarge x	13	29N	114W	8820
10022	W	Poison Meadows x	29	30N	116W	8500
10023	W	Salt River Summit x	32	29N	118W	7900
10024	W	Stillwater Camp	32	2N	108W	8550

LOWER BEAR RIVER (below Harer, Idaho)

11141	U	Beaver Creek-Skunk Creek	22	8N	3E	7150
11142	U	Christensen Ranch	27	13S	41E	5600
11143	I	Cab River Ranger Station	5	15S	41E	5400
11144	I	Dry Basin	30	13S	42E	7900
11145	I	Dry Creek Flat	19	8N	4E	8230
11146	I	Dry Creek Flat	31	13S	37E	6350
11147	I	Engrat Canyon (mouth)	24	12S	42E	7350
11148	I	Franklin Basin	1	16S	41E	8000
11149	I	Garden City Summit	35	14N	4E	7600
11150	I	Horseshoe Basin	31	13S	42E	8000
11151	I	Klondike Marrows	10	14N	3E	7400
11152	I	Liberty Marrows	7	13S	42E	8420
11153	I	Little Bear (lower)	15	8N	1E	5800
11154	I	Little Bear (upper)	22	8N	1E	6550
11155	I	Monte Cristo R.S.	3	11N	2E	9000
11156	I	Mt. Logan	32	13S	37E	6800
11157	I	Oxford Mountain	15	10S	44E	7225
11158	I	Slug Creek Divide	26	12N	2E	7000
11159	I	Spring Hollow (lower)	35	12N	3E	8000
11160	I	Spring Hollow (upper)	7	14N	2E	8500
11161	I	Steep Hollow #1	9	14N	3E	7700
11162	I	Steep Hollow #2	9	13S	41E	5800
11163	I	Strawberry Mink Divide	14	13N	3E	6250
11164	I	Tony Grove Ranger Station	11	13N	3E	6250
11165	I	Willow Flat	2	15S	41E	6100

ODGEN RIVER

11166	U	Beaver Creek-Skunk Creek	22	8N	3E	7150
11167	U	Ben Lomond Peak	3	7N	1E	8800
11168	U	Ben Lomond (lower)	1	7N	1E	5050
11169	U	Dry Bread Pond	19	8N	4E	8230
11170	U	Monte Cristo R.S.	3	11N	2E	9000
11171	U	Mt. Ogden	5	5N	1E	8600
11172	U	Sagebrush Flat	21	7N	3E	6300
11173	U	Snow Basin	32	6N	1E	6420

WEBER RIVER

U	Beaver Creek R.S.	28	2S	7E	7500
U	Chaik Creek #1	4	1N	8E	9100
U	Chaik Creek #2	17 & 20	2N	8E	8000
U	Chaik Creek #3	7	2N	8E	7500
U	Farmington Canyon (lower) x	14	3N	1E	6950
U	Farmington Canyon upper x	26	3N	1E	8000
U	Lamb's Canyon x	19	1S	3E	6600
U	Parley's Canyon Summit	9 & 10	1S	3E	7600
U	Reddon Mine (lower)	1	2S	6E	8500
U	Reddon Mine (upper)	1	2S	6E	9000
U	Silver Lake (Brighton) x	35	2S	3E	8725
U	Smith & Morehouse	25	1N	7E	7600
U	Trial Lake x	5	2S	9E	9800

PROVO RIVER & UTAH LAKE

11187	U	Camp Altamont	29	4S	3E	7300
11188	U	Clear Creek Ridge #1	18	11S	6E	9200
11189	U	Clear Creek Ridge #2	9	11S	6E	8000
11190	U	Clear Creek Ridge #3	27	10S	6E	6600
11191	U	Daniels-Strawberry Summit	20	2S	12W	8000
11192	U	Dutchman R.S.	27	3S	3E	7560
11193	U	East Portal	35	7S	6E	7560
11194	U	Hobbs Creek Summit	20	7S	5E	6400
11195	U	Packard Canyon	21	7S	5E	6400
11196	U	Payson R.S.	30	10S	3E	8050
11197	U	Rock Bridge	14	10S	2E	6750
11198	U	Soapstone R.S.	9	3S	8E	7800
11199	U	South Fork R.S.	24	4S	3E	6100
11200	U	Strawberry Divide	34	3S	7S	8000
11201	U	Timpanogos Cave Camp	27	4S	2E	5500
11202	U	Timpanogos Divide	33	4S	3E	8100
11203	U	Trial Lake	5	2S	9E	9800

JORDAN RIVER & GREAT SALT LAKE

11204	U	Bevan's Cabin	24	4S	4W	6450
11205	U	Farmington Canyon (lower)	14	3N	1E	6950
11206	U	Farmington Canyon (upper)	26	3N	1E	8000

UPPER SEVIER RIVER (South of Richfield, Utah)

906P	U	Julius Park	20	3U	1E	9400
10275s	U	Lakefork Basin	13	4W	7W	11100
1010P	U	Lakefork Mountain	2 & 3	2W	5W	10030
1011I	U	Lakefork Mountain #2	17	2W	4W	8900
1012I	U	Lakefork Mountain #3	19	2W	4W	8100
905S	U	Mosby Mountain	27	2S	18E	9500
903P	U	Paradise Park	7	3U	1E	10100
1019P	U	Rock Creek	21	2W	7W	7000
1029P	U	Sagestone R.S. x	9	3S	8E	7600
1108	U	Strawberry Divide x	34 & 35	7S	6E	8000
1008P	U	Trial Lake x	5	2S	7E	9630
10K20P	U	White River #1 x	11	10S	8E	8950
PRICE RIVER						

12183	U	Big Flat x	18	2S	4W	10290
12184	U	Box Creek	33	26S	2W	9800
12185	U	Bryce Canyon	36	36S	4W	8000
12186	U	Castle Valley	22	36S	8W	9700
12187	U	Cedar Breaks	2	37S	9W	10390
12188	U	Duck Creek R.S.	11	38S	8W	8560
12189	U	Fish Lake x	35	26S	1E	8700
12190	U	Harris Flat	24	38S	7W	7700
12191	U	Kimberly Mine	11	27S	5W	9100
12192	U	Long Valley Junction x	22	38S	6W	7800
12193	U	Long Valley	26	37S	9W	9500
12194	U	Panguitch Lake	4 & 5	36S	7W	8200
12195	U	Panguitch Lake	3	27S	2W	9300
12196	U	Squaw Springs	22	34S	1W	9500
12197	U	Wadsworth-Escalante Summit	22	34S	1W	9500
12198	U	Wadsworth-Escalante #2	22	34S	1W	9500
12199	U	Wadsworth-Escalante #3	22	34S	2W	7600
12200	U	Wadsworth R.S.	22	34S	2W	7600

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
12201	U	Beaver Dams	17	22S	3W	7200
12202	U	Farnsworth Lake	27	19S	3E	8000
12203	U	G.B.R.C. Headquarters	27	23S	2E	9900
12204	U	G.B.R.C. Headquarters	21	17S	4E	8700
12205	U	G.B.R.C. Headquarters	26 & 27	17S	4E	10000
12206	U	Gooseberry R.S.	32	23S	2E	8400
12207	U	Gooseberry Reservoir x	32	23S	2E	8700
12208	U	Huntington-Horseshoe x	12	14S	5E	9800
12209	U	Huntington-Horseshoe x	12	14S	5E	9800
12210	U	Mammoth R.S. - Cottonwood Creek	13	13S	5E	8800
12211	U	Middle Fork	16	13S	4E	9600
12212	U	Mt. Baldy R.S.	19	19S	4E	9500
12213	U	Pine Creek	24	22S	4W	8700
12214	U	Rees's Flat	24	15S	2E	7300
12215	U	Shingle Mill	5	22S	3W	6200
12216	U	Thistle Flat	24	18S	4E	8500

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
12217	U	Big Flat	13	29S	4W	10290
12218	U	Merchant's Valley	8 & 9	29S	5W	8700
12219	U	Otter Lake	1	29S	5W	9300

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
12220	U	Ed Ward Flat	17	35S	8W	8300
12221	U	Yankee Reservoir	20	35S	8W	8700

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
12222	U	Cedar Breaks x	2	37S	9W	10390
12223	U	Midway Valley x	26	37S	9W	9200
12224	U	Urie Flat	11	37S	10W	8450
12225	U	Webster Flat x	20	37S	9W	9200

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
12226	U	Little Grassy Creek	15	38S	17W	6100
12227	U	Long Flat	2	38S	14W	8000

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
12228	U	Ashley Twin Lakes	20	1S	19E	10500
12229	U	Black's Fork G.S. - East Fork	25	2N	12E	9300
12230	U	Black's Fork Junction	33	3N	12E	8925
12231	U	Buck Pasture	14	1N	11E	9700
12232	U	Hewinta G.S.	33	3N	13E	9500
12233	U	Hickerson Park	24	2N	17E	9100
12234	U	Hole-in-the-Rock	13	2N	15E	9150
12235	U	Hole-in-the-Rock G.S.	32	3N	16E	8300
12236	U	King's Cabin (lower)	23 & 26	1S	21E	8600
12237	U	King's Cabin (upper)	23 & 26	1S	21E	8730
12238	U	Middle Beaver Creek	31	3N	16E	8550
12239	U	Spirit Lake	10	1N	17E	10300
12240	U	Steel Creek	17	2N	13E	9900
12241	U	Windy Park	1	1S	20E	9400

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
12242	U	Atwood Basin	21	1S	15E	10250
12243	U	Brown Duck Lake	2	2N	6W	10300
12244	U	Chepeta-Whiterocks Lakes	3	1S	17E	10300
12245	U	Currant Creek	31	1S	10W	7800
12246	U	Daniels-Strawberry Summit x	20	2S	12W	8000
12247	U	East Portal x	36	7S	6E	7560
12248	U	Five Point Lake	28	4N	5W	11000
12249	U	Indian Canyon	2	11S	10E	9100
12250	U	Jackson Park	23	3N	4W	11300

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
12251	U	Black's Fork G.S. - East Fork	25	2N	12E	9300
12252	U	Black's Fork Junction	33	3N	12E	8925
12253	U	Buck Pasture	14	1N	11E	9700
12254	U	Hewinta G.S.	33	3N	13E	9500
12255	U	Hickerson Park	24	2N	17E	9100
12256	U	Hole-in-the-Rock	13	2N	15E	9150
12257	U	Hole-in-the-Rock G.S.	32	3N	16E	8300
12258	U	King's Cabin (lower)	23 & 26	1S	21E	8600
12259	U	King's Cabin (upper)	23 & 26	1S	21E	8730
12260	U	Middle Beaver Creek	31	3N	16E	8550
12261	U	Spirit Lake	10	1N	17E	10300
12262	U	Steel Creek	17	2N	13E	9900
12263	U	Windy Park	1	1S	20E	9400

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
12264	U	Atwood Basin	21	1S	15E	10250
12265	U	Brown Duck Lake	2	2N	6W	10300
12266	U	Chepeta-Whiterocks Lakes	3	1S	17E	10300
12267	U	Currant Creek	31	1S	10W	7800
12268	U	Daniels-Strawberry Summit x	20	2S	12W	8000
12269	U	East Portal x	36	7S	6E	7560
12270	U	Five Point Lake	28	4N	5W	11000
12271	U	Indian Canyon	2	11S	10E	9100
12272	U	Jackson Park	23	3N	4W	11300

1342	I	Clear Creek Meadows	26	14N	14W	9050
1341	I	One Mile Summit	19	14N	14W	7330
1343a	I	ViPont	17	14N	17W	7670

WATER SUPPLY OUTLOOK

as of

JANUARY 4, 1966

* * * * *

* The outlook for next summer's water supply is now good to *
* excellent for much of the state. Forecasts of the April- *
* September runoff for most streams now ranges from about *
* 90% to 110% of the 1948-62 average. Exceptions occur in *
* the southwestern part of the state and in the Uintah Basin *
* where higher streamflow is expected. The Virgin and *
* South Fork Sevier rivers, as well as Coal Creek near *
* Cedar City have prospects of 155% to 170% of average flow *
* In the Uintah Basin the present snowpack indicates that *
* most streams can be expected to flow at about 125% of av- *
* erage. Present reservoir storage, excluding the Colorado *
* river storage reservoirs, is 60% of reservoir capacity. *
* The 15-year average storage was 49% of capacity. *
* * * * *

In southwestern Utah the snowpack on the watersheds near Cedar Breaks varies from about twice to over three times the average amount for this time of year, and is at or near the average for the first of March. In the Uintah Basin the snowpack varies from about average on the headwaters of the Duchesne to 163% of the usual amount on the Whiterocks river and 194% at the Indian Canyon course between the Strawberry and Price rivers.

In general - and particularly in central and northern Utah - the snowpack is proportionately greater at the higher elevations than at the lower levels. Several examples will illustrate this. Near Salt Lake the snow water at Brighton (elev. 8725 ft.) is 127%, while at Parley's Canyon Summit (elev. 7600 ft.) it is 80% and at Lamb's Canyon (elev. 6600 ft.) it is 56%. On the American Fork river the snow water at the Timpanogos Divide course (elev. 8140 ft.) is 135%, while at Camp Altamont (elev. 7300 ft.) it is 89%.

The heavy snowpack in southwestern Utah is confined largely to the watersheds near Cedar Breaks. It decreases on watersheds to the east and north of here, so that forecasts range from about average to 10% above average for the Beaver and East Fork Sevier rivers.

WATER SUPPLY OUTLOOK (continued)

Lowest forecasts in the State are for Salina Creek, the streams near Fillmore, the Muddy and Fremont rivers where about 85% to 90% runoff is currently expected. Inflow to the Sevier river between Kingston and Vermillion Dam is expected to be about 180% of average, with about 12,000 acre feet above 400 cfs. Inflow from Vermillion Dam to Gunnison should be near average. Sevier Bridge inflow should be near 90%.

The soil moisture underlying the snowpack is generally near average or above, base flow of the streams as a carryover effect from last year is up, and reservoir storage as reported by the U. S. Geological Survey is excellent. Everything considered, the outlook for next summer's water supply is good to excellent.

The outlook for all streams other than those mentioned above is that they will yield within 5% of average flow.

Streamflow forecasts are made by considering the present snowpack and related hydrologic factors and assuming that average weather will prevail for the balance of the season. Since in the average year there is still 60% to 65% of the snowpack yet to come, forecasts can change considerably - either up or down - as the season progresses.

RESERVOIR STORAGE (1,000 Ac. Ft.)

BASIN or STREAM	RESERVOIR	USABLE CAPACITY	MEASURED (FIRST OF MONTH)		
			THIS YEAR	LAST YEAR	AVERAGE ^a
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1206.9	881.1	882.4
	Woodruff Narrows	26.5	19.2	- -	- -
<u>Little Bear</u>	Hyrum	15.3	10.7	8.2	9.2
	Porcupine	11.3	2.8	5.0c	- -
<u>Ogden</u>	Pineview	110.0	78.1	61.4	8.5
<u>Weber</u>	Rockport	59.1	52.5	41.2	15.0**
	Echo	73.9	62.0	42.0	23.9
	East Canyon	28.7	0.4	0.0	11.2
	Willard Bay	215.0	74.8	- -	- -
<u>Provo</u>	Deer Creek	149.7	115.6	115.2	91.8
<u>Spanish Fork</u>	Strawberry	270.0	112.7	59.5	129.9
<u>Utah Lake</u>	Utah Lake (b)	1149.0	664.3	355.9	485.5
<u>Sevier River</u>	Otter Creek	52.5	22.9	11.4	19.7
	Piute	74.0	29.8	16.9	23.9
	Sevier Bridge	236.0	79.2	31.8	79.5
<u>Beaver River</u>	Rocky Ford	23.3	10.2	5.4c	9.1
COLORADO RIVER DRAINAGE					
<u>Ashley Creek</u>	Steinaker	33.3	18.5	12.6	- -
<u>Lake Fork</u>	Moon Lake	35.8	30.4	8.2	11.3
<u>Price River</u>	Scofield	65.8	50.9	10.8	17.2
<u>Green</u>	Flaming Gorge	3789.0*	2434.6	1137.6	- -
<u>San Juan</u>	Navajo	1709.0*	415.9	391.9	- -
Colorado	Lake Powell	27000.0*	8765.0	6224.0	- -

* - Total capacity reported

** - 1957-62 Average Contents

All data contained in this table supplied by the U.S. Geological Survey.

(a) 1948-62 average. (b) Active capacity taken at 3.1 feet above compromise point. (c) Partly estimated.

(d) Total capacity reported.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

GREAT BASIN

Smith's Fork - Bear River (Wyo)	2	44	80
Logan River	3	59	87
Ogden River	1	52	82
Weber River above Echo Dam	6	43	86
East Canyon Creek	3	48	88
Farmington Creek	2	42	87
Salt Lake Area	4	46	82
Tooele Area	1	55	90
American Fork River	2	74	112
Provo River above Vivian Park	7	56	106
Strawberry Reservoir Valley	3	94	114
Payson Creek	2	36	68
Sevier River above Hatch	3	157	295
East Fork Sevier River	4	112	92
Salina Creek	2	34	73
San Pitch River	5	39	84
Coal Creek-Cedar City	3	162	297

COLORADO RIVER BASIN

Duchesne-Strawberry Rivers	6	61	123
Whiterocks - Uintah Rivers	3	90	163
Price River	6	56	122
San Rafael River	4	44	83
Escalante River	3	97	70
Virgin River	4	166	290

(a) 1948-62, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation; Water content estimated. * Estimated 1948-62, 15 year average.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

GREAT BASIN DRAINAGE

UPPER BEAR RIVER
(Above Harer, Idaho)

CCC Camp x	10G7	7500	12/29	16	3.5	8.8	5.1
Salt River Summit*	10G8	7900	12/29	23	5.9	12.4	6.4
Trial Lake*	10J8	9800	12/30	64	10.9	23.4	10.8*

LOWER BEAR RIVER
(Below Harer, Idaho)

Garden City Summit	11H7	7600	12/30	40	8.2	14.4	8.1*
Klondike Narrows	11H1	7400	12/30	40	8.0	15.4	8.5*
Tony Grove R.S.	11H3	6250	12/30	27	4.6	6.8	4.8*

OGDEN RIVER

Ben Lomond Peak	11H8	8000	12/29	32	11.0	21.3	13.5*
Ben Lomond (lower)	11H9	5850	12/29	8	1.2	6.2	6.3*
Ben Lomond Trail	11H30	6000	12/29	10	1.5	8.2	- -
Cutler Creek	11H29	6780	12/29	20	4.9	16.3	- -

WEBER RIVER

Beaver Creek R.S.	11J24	7500	12/30	20	2.6	7.8	3.4*
Farmington Canyon(l)	11J12	6950	12/30	29	5.2	13.6	8.0*
Farmington Canyon(u)	11J11	8000	12/30	45	10.2	21.3	9.0*
Lamb's Canyon x	11J14	6600	12/29	14	3.0	10.0	5.4*
Parley's Canyon Smt.	11J15	7500	12/30	32	5.6	13.3	7.0*
Silver Lake x	11J16	8725	12/30	57	13.5	18.4	10.6
Smith & Morehouse	11J4	7600	12/29	13	3.5	10.8	4.7*
Trial Lake x	10J8	9800	12/30	64	10.9	23.4	10.8*

PROVO RIVER & UTAH LAKE

Camp Altamont	11J20	7300	12/30	28	6.2	10.2	7.0
Daniels-Strawberry Smt.	11J23	8000	1/3	36	8.0	10.0	5.4
East Portal	11J7	7560	12/30	27	4.3	7.6	4.1
Payson R.S.	11K1	8050	12/29	22	5.3	11.2	5.9*
Rock Bridge	11K2	6750	12/29	10	1.9	7.2	4.1*
Soapstone R.S.	11J25	7800	12/30	33	5.2	12.8	5.2*
South Fork R.S.	11J19	6100	12/30	3	1.2	1.7	3.8
Strawberry Divide	11J8	8000	12/30	41	6.8	13.3	7.6
Timpanogos Cave Camp	11J18	5500	12/30	Trace	Trace	0.6	1.4
Timpanogos Divide	11J21	8140	12/30	55	14.4	16.5	10.7
Trial Lake	10J8	9800	12/30	64	10.9	23.4	10.8*

(a) 1948-62, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1948-62, 15 year average.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

JORDAN RIVER & GREAT SALT LAKE

Lamb's Canyon	11J14	6600	12/29	14	3.0	10.0	5.4*
Middle Canyon	12J3	7000	1/3	18	4.6	8.4	5.1*
Mill D South Fork	11J10	7400	12/29	29	5.0	13.4	7.5*
Parley's Canyon Smt.x	11J15	7500	12/30	32	5.6	13.3	7.0*
Silver Lake	11J16	8725	12/30	57	13.5	18.4	10.6

UPPER SEVIER RIVER

(South of Richfield, Utah)

Bryce Canyon	12M8	8000	12/29	17	3.6	2.3	2.2*
Duck Creek R.S.	12M4	8560	12/31	41	12.8	7.4	4.0*
Harris Flat	12M5	7700	12/31	21	6.7	4.9	2.0*
Kimberly Mine	12L6	8900	12/30	22	2.2	7.6	6.0*
Long Valley Jct. x	12M6	7500	12/31	Ice	Ice	0.4	1.0*
Midway Valley	12M2	9800	12/28	52	16.0	10.0	7.0*
Widtsoe-Escalante Smt.	11M1	9500	12/29	20	2.6	3.2	3.4*
Widtsoe-Escalante #2	11M2	9500	12/29	25	2.9	3.2	4.8*
Widtsoe-Escalante #3	11M3	9500	12/29	31	4.8	4.0	7.0*

LOWER SEVIER RIVER

(Including San Pitch River)

Beaver Dams	11K13	8000	12/28	10	1.8	8.8	3.9*
Farnsworth Lake	11L1	9900	12/29	18	4.4	11.9	6.0*
G.B.R.C. Headquarters	11K11	8700	12/30	20	4.8	12.6	5.5*
G.B.R.C. Meadows	11K10	10000	12/30	32	7.3	16.8	9.0*
Gooseberry R.S.	11L2	8400	12/29	13	2.4	8.0	3.3*
Gooseberry Reservoir x	11K4	8700		No Report		12.3	6.8*
Mammoth R.S.-Ctnwd.Crk.	11K3	8800	12/27	27	5.6	12.0	7.0*
Mt. Baldy R.S.	11K12	9500	12/28	29	6.6	16.6	7.2*
Shingle Mill	12L11	6200	12/29	8	0.9	2.8	- -

COAL CREEK

CSU Ranch	12M17		12/29	19	5.4	- -	- -
Midway Valley x	12M2	9800	12/28	52	16.0	10.0	7.0*
Urie Flat	12M10	8450	12/29	15	3.9	2.9	1.9*
Webster Flat x	12M3	9200	12/29	41	12.5	6.5	4.5*

PAROWAN CREEK

Birch Crossing	12M16	8100	12/28	10	1.7	- -	- -
Brian Head	12M14	10400	12/28	36	10.2	- -	- -
Ed Ward Flat	12M12	8300	12/28	14	3.2	- -	- -
Tall Poles	12M15	8800	12/28	23	5.8	- -	- -
Yankee Reservoir	12M11	8700	12/28	17	4.1	- -	- -

(a) 1948-62, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1948-62, 15 year average.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

COLORADO RIVER DRAINAGE

DUCHESNE RIVER

Daniels-Strawberry Smt.	11J23	8000	1/3	36	8.0	10.0	5.4
East Portal x	11J7	7560	12/30	27	4.3	7.6	4.1
Indian Canyon	10K1	9100	12/30	39	9.7	10.8	5.0
Julius Park	9J6	9800	12/30	39	7.6	8.8	5.6*
Mosby Mountain	9J5	9500	12/30	32	7.8	8.3	4.0*
Paradise Park	9J3	10100	12/30	39	8.5	9.6	5.4*
Soapstone R.S. x	11J25	7800	12/30	33	5.2	12.8	5.2*
Strawberry Divide x	11J8	8000	12/30	41	6.8	13.3	7.6
Trial Lake x	10J8	9800	12/30	64	10.9	23.4	10.8*

PRICE RIVER

Dry Valley Divide	11K8	7800	12/30	24	4.2	8.2	3.0
Gooseberry Reservoir	11K4	8700	No Report			12.3	6.8*
Indian Canyon x	10K1	9100	12/30	39	9.7	10.8	5.0
Jones Ranch	11K7	7600	12/30	17	2.8	4.8	2.2
Mammoth R.S.-Ctnwd. Crk. x	11K3	8800	12/27	27	5.6	12.0	7.0*
Mud Creek	11K33	8300	12/30	29	5.3	12.0	4.8*

SAN RAFAEL RIVER

G.B.R.C. Meadows x	11K10	10000	12/30	32	7.3	16.8	9.0*
Gooseberry Reservoir x	11K4	8700	No Report			12.3	6.8*
Mammoth R.S.-Ctnwd. Crk x	11K3	8800	12/27	27	5.6	12.0	7.0*
Mt. Baldy R.S. x	11K12	9500	12/28	29	6.6	16.6	7.2*

FREMONT RIVER

Farnsworth Lake x	11L1	9900	12/29	18	4.4	11.9	6.0*
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MUDDY RIVER

Mt. Baldy R.S. x	11K12	9500	12/28	29	6.6	16.6	7.2*
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ESCALANTE RIVER

Widtsoe-Escalante Smt.	11M1	9500	12/29	20	2.6	3.2	3.4
Widtsoe-Escalante #2	11M2	9500	12/29	25	2.9	3.2	4.8*
Widtsoe-Escalante #3	11M3	9500	12/29	31	4.8	4.0	7.0*

VIRGIN RIVER

Duck Creek R.S.	12M4	8560	12/31	41	12.8	7.4	4.0*
Harris Flat x	12M5	7700	12/31	21	6.7	4.9	2.0*
Long Valley Jct.	12M6	7500	12/31	Ice	Ice	0.4	1.0*
Midway Valley x	12M2	9400	12/28	52	16.0	10.0	7.0*
Webster Flat	12M3	9200	12/29	41	12.5	6.5	4.5*

(a) 1948-62, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1948-62, 15 year average.

PRECIPITATION DATA (Inches)

DRAINAGE BASIN AND RAIN GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. 10/1 TO DATE		
		DATE OF READING	MONTH'S PRECIPITATION	1948 - 62 AVERAGE	THIS YEAR	1948 - 62 AVERAGE	PERCENT OF AVERAGE

GREAT BASIN DRAINAGE

UPPER BEAR RIVER (Above Harer, Idaho)

Salt River Summit	7900	12/29	0.63	3.20	5.10	7.75	66
Trial Lake*	9800	12/30	4.12	5.05	11.25	11.05	102

LOWER BEAR RIVER (Below Harer, Idaho)

Garden City Summit	7600	12/30	2.42	3.40	8.61	8.25	104
Klondike Narrows	7400	12/30	2.54	4.20	10.57	10.20	104
Tony Grove R.S.(SCS)	6250	12/30	1.95	- -	7.15	- -	-

OGDEN RIVER

Ben Lomond(lower)	5850	12/29	1.18	3.80	11.12	10.60	105
Ben Lomond Trail	6000	12/29	1.09	4.00	11.26	11.13	101
Causey Dam	5500	12/29	0.83	- -	4.72	- -	--

WEBER RIVER

Farmington Guard Sta.(1)	7500	Delayed Report		5.40		13.40	
Farmington Rice (1)	7000	Delayed Report		4.90a		11.99a	
Mt. Dell Dam (2)*	5500	12/31	3.10	2.49a	6.63	6.11a	109
Parley's Canyon Smt.	7500	12/30	3.16	4.05	7.33	9.45	78
Silver Lake(Brighton)*(2)	8725	12/31	5.35	5.67a	13.74	12.98a	106
Smith & Morehouse	7600	12/29	- -	3.55	6.52	8.30	79
Trial Lake*	9800	12/30	4.12	5.05	11.25	11.05	102

PROVO RIVER & UTAH LAKE

Daniels-Strawberry Smt.	8000	1/3	4.70	3.50	9.35	8.35	112
East Portal Ridge	7800	12/30	2.85	- -	7.82	- -	--
Payson R. S.	8050	12/29	- -	3.50	6.27	8.15	77
Soapstone R.S.	7800	12/30	2.38	3.15	7.28	7.35	99
Strawberry Res.-E.Portal	7606	12/30	1.55	2.06a	5.42	4.98a	109
Timpanogos Divide	8200	12/30	7.30	5.09a	15.16	11.73a	129
Trial Lake	9800	12/30	4.12	5.05	11.25	11.05	102

JORDAN RIVER & TOOELE VALLEY

Middle Canyon	7000	1/3	- -	3.65	7.70	8.20	94
Mt. Dell Dam (2)	5500	12/31	3.10	2.49a	6.63	6.11a	109
Parley's Canyon Smt.	7500	12/30	3.16	4.05	7.33	9.45	78
Silver Lake(Brighton)(2)	8725	12/31	5.35	5.67a	13.74	12.98a	106

(1) Data supplied by U.S. Forest Service. (2) Data supplied by U.S. Weather Bureau. a - all values estimated except those where symbol "a" occurs. *Adjacent drainage.

PRECIPITATION DATA (Inches)

DRAINAGE BASIN AND RAIN GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. 10/1 TO DATE		
		DATE OF READING	MONTH'S PRECIPITATION	1948 - 62 AVERAGE	THIS YEAR	1948 - 62 AVERAGE	PERCENT OF AVERAGE

SEVIER RIVER ABOVE RICHFIELD

Duck Creek R. S.	8560	12/31	5.50	3.35	15.32	8.35	183
Kimberly Mine	8900	12/30	3.17	3.10	8.24	7.85	105
Webster Flat*	9200	12/29	4.85	3.50	14.35	8.90	161
Widtsoe-Escalante #3	9500	12/29	3.72	2.30	7.86	6.25	126
Widtsoe-R.S.	7600	12/29	0.87	0.93a	2.63	2.71a	97

SEVIER RIVER BELOW RICHFIELD (Including San Pitch River)

Beaver Dams	8000	12/28	- -	2.55	4.35	6.35	68
Farnsworth Lake	9900	12/29	1.63	3.15	4.63	8.00	58
G.B.R.C. Headquarters(1)	8700	12/30	2.24	3.03	5.89	7.76	76
G.B.R.C. Meadows (1)	10000	12/30	3.08	3.36	7.79	8.75	89
G.B.R.C. Oaks (1)	7655	12/30	1.45	2.24	3.81	5.59	68
Gooseberry R.S. (1)	7800	12/29	1.29	2.40	3.61	5.80	62
Gooseberry Reservoir*	8700	12/27	- -	3.35	7.14	8.15	88
Mammoth R.S. #2*	8600	12/27	- -	3.35	6.64	8.10	82
Mt. Baldy	9500	12/28	- -	- -	6.36	- -	--
Shingle Mill	6200	12/29	2.22	2.55	4.81	6.50	74

BEAVER RIVER

Beaver Canyon P.H.(2)	7275	12/31	2.19	1.41a	4.25	3.80a	112
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COAL CREEK

Webster Flat*	9200	12/29	4.85	3.50	14.35	8.90	161
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PAROWAN CREEK

Tall Poles	8800	12/27	2.25	- -	6.61	- -	--
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COLORADO RIVER DRAINAGE

UPPER GREEN RIVER IN UTAH

(Tributaries above Duchesne River)

Burnt Creek	7900	12/23	- -	- -	3.60	- -	--
Grizzly Ridge	8500	12/23	- -	- -	7.29	- -	---

(1) Data supplied by U.S. Forest Service. (2) Data supplied by U.S. Weather Bureau. a - all values estimated except those where symbol "a" occurs. *Adjacent drainage.

PRECIPITATION DATA (Inches)

DRAINAGE BASIN AND RAIN GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. 10/1 TO DATE		
		DATE OF READING	MONTH'S PRECIPITATION	1948 - 62 AVERAGE	THIS YEAR	1948 - 62 AVERAGE	PERCENT OF AVERAGE
<u>DUCHESNE RIVER</u>							
Daniels-Strawberry Smt.*	8000	1/3	4.70	3.50	9.35	8.35	112
East Portal Ridge*	7800	12/30	2.85	- -	7.82	- -	--
Indian Canyon	9100	12/30	- -	2.90	10.34	6.80	152
Julius Park	9800	12/30	- -	2.70	8.43	7.10	119
Moon Lake	8150	12/31	2.50	1.49	6.00	4.25	141
Paradise Park	10100	12/30	- -	2.90	10.05	7.65	131
Soapstone R.S.*	7800	12/30	2.38	3.15	7.28	7.35	99
Strawberry Res.-E.Portal*	7606	12/30	1.55	2.06a	5.42	4.98a	109
Trial Lake*	9800	12/30	4.12	5.05	11.25	11.05	102
<u>PRICE RIVER</u>							
Gooseberry Reservoir	8700	12/27	- -	3.35	7.14	8.15	88
Indian Canyon	9100	12/30	- -	2.90	10.34	6.80	152
Mammoth R.S. #2	8600	12/27	- -	3.35	6.64	8.10	82
Mud Creek	8300	12/30	2.45	3.15	6.50	7.15	91
<u>SAN RAFAEL RIVER</u>							
G.B.R.C. Meadows*(1)	10000	12/30	3.08	3.36	7.79	8.75a	89
Gooseberry Reservoir*	8700	12/27	- -	3.35	7.14	8.15	88
<u>MUDDY RIVER</u>							
Mt. Baldy R.S.*	9500	12/28	- -	- -	6.36	- -	- -
<u>FREMONT & ESCALANTE RIVERS</u>							
Farnsworth Lake*	9900	12/29	1.63	3.15	4.63	8.00	58
Widtsoe-Escalante #3	9500	12/29	3.72	2.30	7.86	6.25	126
<u>VIRGIN RIVER</u>							
Duck Creek R.S.	8560	12/31	5.50	3.35	15.32	8.35	183
Webster Flat	9200	12/29	4.85	3.50	14.35	8.90	161

(1) Data supplied by U.S. Forest Service. (2) Data supplied by U.S. Weather Bureau. a - all values estimated except those where symbol "a" occurs. *Adjacent drainage.

Agencies Cooperating in Utah Snow Surveys

U. S. GOVERNMENT AGENCIES

U. S. Department of Agriculture
Soil Conservation Service
Forest Service
U. S. Department of Commerce
Weather Bureau
U. S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah Agricultural Experiment Station
Utah Fish and Game Department
Utah State Engineer
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner
Utah Water and Power Board

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

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necessary for forecasting
water supply for irrigation,
domestic and municipal water
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generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*